

ORIGINAL CLAIMS

MULTISTANDARD VIDEO DECODER AND DECOMPRESSION SYSTEM FOR PROCESSING ENCODED BIT STREAMS INCLUDING STORING DATA AND METHODS RELATING THERETO

USSN: 09/771,062

Status: Pending

Our Reference: 94100414(EP)USC1X1C1D3 PDDD

Total Claims: 7

1 1. A method of storing data, comprising:
2 receiving a sequence of data words of a first predetermined width and different
3 respective formats;
4 splitting the data words of the received sequence to form new data words of a
5 new sequence, the new data words having a second predetermined width;
6 packing the consecutive new data words consecutively in a token buffer of a
7 second width without holes between the packed new data words; and
8 unpacking the data words to reproduce the new sequence of new data words.

1 2. The method of claim 1, further comprising:
2 writing a block of data from the token buffer to a random access memory device
3 configured to store words of the second width.

1 3. The method of claim 1, further comprising:
2 expanding out run length code in the unpacked words.

1 4. An inverse modeler, comprising:
2 a data unpacker to unpack data words received from an input terminal to a
3 different length format;
4 a data expander coupled to the data unpacker; and
5 a data padder to pad data tokens received from the expander.

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1 5. The inverse modeler of claim 4, wherein the data expander expands out
2 run length codes into runs of zeros followed by a level in the packed data.

1 6. The inverse modeler of claim 5, wherein the data padder pads the last
2 word of the expanded tokens.

1 7. The inverse modeler of claim 4, wherein the data unpacker deletes data
2 between a flush signal and a block end signal.

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